

## METHOD FOR CONTRAST ENHANCEMENT BY AREA GRAY- LEVEL DETECTION

### 5 ABSTRACT OF THE DISCLOSURE

A method for dynamic contrast enhancement by area gray-level detection with an image comprising steps of: transferring color space of said image from color space of RGB to that with brightness Y; making a brightness distribution histogram based on brightness of said image to  
10 get a corresponding relation between a gray level value and a count; dividing the whole brightness distribution into even brightness distribution areas by gray level value, and calculating each amount of counts of each brightness distribution area; according to said amount of counts, deciding a transfer curve to do brightness histogram equalization  
15 to the image for forming a new image with enhanced contrast.